AMENDMENTS TO THE CLAIMS

1. (Currently amended) A method for automating the optimization of search results

displayed in a search Web page, the method comprising:

collecting data that represents a performance of a search result, the data originating from

at least one of a plurality of sources of performance data;

normalizing the collected data in accordance with a relative importance of the source of

the data;

comparing the normalized performance data to an expected performance data for the

search result;

diagnosing at least one possible cause for an underperforming search result from the

results of the comparison between the normalized performance data and the expected

performance data; and

adjusting an operation of a search engine that produced the search result in accordance

with the diagnosis to improve the search result performance, the adjustment operative to give

greater significance to performance data from at least one of the sources.

2. (Original) The method of Claim 1, wherein the at least one of the plurality of

sources of performance data includes one of an implicit performance data, an explicit

performance data, a human-judged performance data, a relevance verification data, and a sample

test data.

3. (Original) The method of Claim 1, wherein normalizing the collected data in

accordance with a relative importance of the source of the data includes giving greater weight to

the data from the more important sources and combining the data to reflect the relative

importance of the source from which the data originated.

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4. (Currently amended) The method of Claim 2, wherein comparing the normalized

performance data to the expected performance data includes determining that the search result is

underperforming when the normalized performance is below or substantially a quantified

threshold below the expected performance.

5. (Currently amended) The method of Claim 2, wherein the most important source

of data is implicit performance data, and normalizing the collected data includes giving implicit

performance data substantially greater weight when combining the data.

6. (Original) The method of Claim 2, wherein implicit performance data is

automatically captured when a user interacts with the search result.

7. (Original) The method of Claim 6, wherein implicit performance data includes at

least one of whether the user clicked on the result, a location of the result when the user clicked

the result, and a length of time that the user browsed the result.

8. (Original) The method of Claim 7, wherein implicit performance data further

identifies an operation that the user performed on the result, including at least one of editing,

e-mailing, printing, bookmarking, and copying.

9. (Original) The method of Claim 6, wherein implicit performance data includes

captured data that has been aggregated across multiple interactions with the search result.

10. (Original) The method of Claim 6, wherein implicit performance data includes

captured data that has been aggregated across multiple users interacting with the search result.

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11. (Original) The method of Claim 2, wherein explicit performance data includes

data obtained from user response to a search engine operator-generated inquiry about the search

result, wherein the inquiry includes one of an on-line inquiry and a telephone inquiry.

12. (Original) The method of Claim 2, wherein human-judged performance data

includes data obtained from a human evaluation of the search result.

13. (Original) The method of Claim 2, wherein relevance verification data includes

data obtained from a verification test of the search result's relevance to verify whether a search

result having a known relevance is still included in the search result generated by the search

engine.

14. (Original) The method of Claim 2, wherein sample test data includes data

obtained from a test of the search result's relevance performed on a sample of a subset of users.

15. (Original) The method of Claim 2, wherein diagnosing at least one possible cause

for an underperforming search result includes considering at least one of whether the search

result is no longer valid, whether the search result appears in a poor location, whether a search

term that generated the search result is easily misspelled, whether the search term is too broad to

generate a meaningful result, and whether a search for the search term should be constrained to a

specific resource.

16. (Original) The method of Claim 2, wherein adjusting an operation of a search

engine that produced the search result in accordance with the diagnosis to improve the search

result performance, includes modifying the search engine's search schema to change the search

result generated for the search term, including at least one of reranking, removing, and replacing

the search results.

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17. (Original) The method of Claim 2, wherein adjusting an operation of a search

engine that produced the search result in accordance with the diagnosis to improve the search

result performance, includes modifying the search engine's search schema to augment a

presentation of the search results generated for the search term, including at least one of

highlighting, animating, enlarging, and repositioning an appearance of the search result on a

search results web page.

18. (Original) The method of Claim 2, wherein adjusting an operation of a search

engine that produced the search result in accordance with the diagnosis to improve the search

result performance, includes increasing the search engine's spellchecker tolerance.

19. (Original) The method of Claim 2, wherein adjusting an operation of a search

engine that produced the search result in accordance with the diagnosis to improve the search

result performance, includes prompting the user to one of clarify or narrow the search term with

an additional user input.

20. (Original) The method of Claim 2, wherein adjusting an operation of a search

engine that produced the search result in accordance with the diagnosis to improve the search

result performance, includes temporarily adjusting the operation of the search engine, and

determining whether the adjustments have actually improved the search result performance

before permanently adjusting the operation of the search engine.

21. (Original) The method of Claim 2, wherein adjusting an operation of a search

engine that produced the search result in accordance with the diagnosis to improve the search

result performance, includes adjusting the operation of the search engine in real time.

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22. (Original) The method of Claim 21, wherein adjusting the operation of the search

engine in real time includes intercepting the search result generated by the search engine and

modifying the search result before the search engine displays the search result to the user.

23. (Currently amended) An automated search result optimization system that

provides search results to a user, comprising:

an input data representing a performance of a search result generated by a search engine

for a search term, the input data originating from a plurality of sources;

a data collection process to collect the input performance data from the plurality of

sources;

a diagnostic process to compare a performance of the search result, as represented by the

collected performance data, to an expected performance of the search result; and

an adjustment process to generate an output data representing an action to automatically

adjust an operation of the search engine whenever the search result performance compares

unfavorably to diverges a quantified threshold from the expected performance, wherein the

adjusted operation of the search engine is to improve the performance of the search result.

24. (Original) The system of Claim 23, wherein the at least one of the plurality of

sources of input performance data includes one of an implicit performance data, an explicit

performance data, a human-judged performance data, a relevance verification data, and a sample

test data.

25. (Original) The system of Claim 23, wherein the data collection process includes a

normalizing process to normalize the collected data in accordance with a relative importance of

the source of the data, and further wherein normalizing includes giving greater weight to the data

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Suite 2800 Scattle, Washington 98101 206 682 8100 from the more important sources and combining the data to reflect the relative importance of the

source from which the data originated.

(Currently amended) The system of Claim 25, wherein the diagnostic process 26.

compares the performance of the search result as represented by the normalized collected

performance data to an expected performance of the search result; and further, wherein the

comparison is unfavorable when the performance is lower than or substantially lower than a

quantified threshold value below the expected performance.

(Currently amended) The system of Claim 25, wherein the most important source 27.

of data is implicit performance data, and normalizing the collected data includes giving implicit

performance data substantially greater weight when combining the data.

(Original) The system of Claim 27, wherein implicit performance data is 28.

automatically captured when a user interacts with the search result.

29. (Original) The system of Claim 28, wherein implicit performance data includes at

least one of whether the user clicked on the result, a location of the result when the user clicked

the result, and a length of time that the user browsed the result.

(Original) The system of Claim 29, wherein implicit performance data further 30.

includes data representing an identification of an operation that the user performed on the result,

including at least one of editing, e-mailing, printing, bookmarking, and copying.

31. (Original) The system of Claim 28, wherein implicit performance data includes

captured data that has been aggregated across multiple interactions with the search result.

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32. (Original) The system of Claim 28, wherein implicit performance data includes

captured data that has been aggregated across multiple users interacting with the search result.

33. (Original) The system of Claim 24, wherein explicit performance data includes

data obtained from user response to a search engine operator-generated user satisfaction survey

about the search result.

34. (Original) The system of Claim 24, wherein human-judged performance data

includes data obtained from a human evaluation of the search result.

35. (Original) The system of Claim 24, wherein relevance verification data includes

data obtained from a verification test of the search result's relevance to verify whether a search

result having a known relevance is still included in the search result generated by the search

engine.

36. (Original) The system of Claim 24, wherein sample test data includes data

obtained from a test of the search result's relevance performed on a sample of a subset of users.

37. (Original) The system of Claim 24, wherein the diagnostic process further

includes diagnosing at least one possible reason why the performance of the search result

compares unfavorably to the expected performance, including considering at least one of

whether the search result is no longer valid, whether the search result appears in a poor location,

whether a search term that generated the search result is easily misspelled, whether the search

term is too broad to generate a meaningful result, and whether a search for the search term

should be constrained to a specific resource.

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38. (Original) The system of Claim 23, wherein the adjustment process to generate

an output data representing an action to automatically adjust an operation of the search engine,

includes generating output data that represents an action to modify the search engine's search

schema, wherein the modified search schema changes the way the search engine generates a

search result for a search term, including at least one of reranking, removing, and replacing the

search result.

39. (Original) The system of Claim 23, wherein the adjustment process to generate

an output data representing an action to automatically adjust an operation of the search engine,

includes generating output data that represents an action to modify the search engine's search

schema, wherein the modified search schema augments the way the search engine presents the

search result for a search term, including at least one of highlighting, animating, enlarging, and

repositioning an appearance of the search result on a search result Web page.

40. (Original) The system of Claim 23, wherein the adjustment process to generate

an output data representing an action to automatically adjust an operation of the search engine,

includes generating output data that represents an action to increase the search engine's

spellchecker tolerance.

41. (Original) The system of Claim 23, wherein the adjustment process to generate

an output data representing an action to automatically adjust an operation of the search engine,

includes generating output data that represents an action to prompt the user to one of clarify or

narrow the search term with an additional user input.

42. (Original) The system of Claim 23, wherein the adjustment process to generate

an output data representing an action to automatically adjust an operation of the search engine,

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includes generating output data that represents an action to temporarily adjust the operation of

the search engine, and to further determine whether the temporary adjustment has actually

improved the search result performance before generating an action to permanently adjust the

operation of the search engine.

43. (Original) The system of Claim 23, wherein the adjustment process to generate

an output data representing an action to automatically adjust an operation of the search engine,

includes generating output data that represents an action to adjust the operation of the search

engine in real time.

44. (Currently amended) The system of Claim [[42]] 43 herein the action to adjust

the operation of the search engine in real time includes an action to intercept the search result

generated by the search engine and to further modify the search result before the search engine

displays the search result to the user.

45. (Currently amended) One or more computer-accessible media having instructions

stored on the media for facilitating the automated optimization of a search result in a search

result user interface, the instructions comprising:

collecting data that represents a performance of a search result from at least one of a

plurality of sources of performance data;

normalizing the collected data in accordance with a relative importance of the source of

the data:

comparing the normalized performance data to an expected performance data for the

search result;

diagnosing at least one possible reason why the search result performance compares

unfavorably to the expected performance cause for an underperforming search result based on

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the comparison between the normalized performance data and the expected performance data;

and

adjusting an operation of a search engine that produced the search result in accordance

with the diagnosis to improve the search result performance, the adjustment operative to give

greater significance to performance data from at least one of the sources.

46. (Original) The computer-accessible media of Claim 45, wherein the at least one

of the plurality of sources of performance data includes one of an implicit performance data, an

explicit performance data, a human-judged performance data, a relevance verification data, and a

sample test data.

47. (Original) The computer-accessible media of Claim 45, wherein the instruction to

normalize the collected data in accordance with a relative importance of the source of the data

includes instructions to give greater weight to the data from the more important sources and to

combine the data to reflect the relative importance of the source from which the data originated.

48. (Currently amended) The computer-accessible media of Claim 45, wherein the

instruction to compare the normalized performance data to the expected performance data

includes an instruction to determine that the search result is underperforming when the

normalized performance is below or substantially a quantified threshold value below the

expected performance.

49. (Currently amended) The computer-accessible media of Claim 47, wherein the

most important source of data is implicit performance data, and the instruction to normalize the

collected data includes an instruction to give implicit performance data substantially greater

weight when combining the data.

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50. (Original) The computer-accessible media of Claim 46, wherein implicit

performance data is data that is automatically captured by a search engine when a user interacts

with a search result.

51. (Original) The computer-accessible media of Claim 50, wherein implicit

performance data includes data that represents at least one of whether the user clicked on the

result, a location of the result when the user clicked the result, and a length of time that the user

browsed the result.

52. (Original) The computer-accessible media of Claim 50, wherein implicit

performance data further identifies an operation that the user performed on the result, including

at least one of editing, e-mailing, printing, bookmarking, and copying.

53. (Original) The computer-accessible media of Claim 50, wherein implicit

performance data includes captured data that has been aggregated across multiple interactions

with the search result.

54. (Original) The computer-accessible media of Claim 50, wherein implicit

performance data includes captured data that has been aggregated across multiple users

interacting with the search result.

55. (Original) The computer-accessible media of Claim 46, wherein explicit

performance data includes data obtained from user response to a search engine operator-

generated inquiry about the search result, wherein the inquiry includes one of an on-line inquiry

and a telephone inquiry.

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56. (Original) The computer-accessible media of Claim 46, wherein human-judged

performance data includes data obtained from a human evaluation of the search result.

57. (Original) The computer-accessible media of Claim 46, wherein relevance

verification data includes data obtained from a verification test of the search result's relevance to

verify whether a search result having a known relevance is still included in the search result

generated by the search engine.

58. (Original) The computer-accessible media of Claim 46, wherein sample test data

includes data obtained from a test of the search result's relevance performed on a sample of a

subset of users.

59. (Original) The computer-accessible media of Claim 45, wherein the instruction to

diagnose at least one possible reason why the search result performance compares unfavorably to

the expected performance includes an instruction to determine at least one of whether the search

result is no longer valid, whether the search result appears in a poor location, whether a search

term that generated the search result is easily misspelled, whether the search term is too broad to

generate a meaningful result, and whether a search for the search term should be constrained to a

specific resource.

60. (Original) The computer-accessible media of Claim 45, wherein the instruction to

adjust the operation of the search engine that produced the search result in accordance with the

diagnosis, includes an instruction to modify the search engine's search schema to change the

search result generated for the search term, wherein to change the search result includes at least

one of to rerank, remove, and replace the search result.

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61. (Original) The computer-accessible media of Claim 45, wherein the instruction to

adjust the operation of the search engine that produced the search result in accordance with the

diagnosis, includes an instruction to modify the search engine's search schema to augment a

presentation of the search result generated for the search term, wherein to augment the

presentation includes at least one of to highlight, animate, enlarge, and reposition a display of the

search result on a search result Web page.

62. (Original) The computer-accessible media of Claim 45, wherein the instruction to

adjust the operation of the search engine that produced the search result in accordance with the

diagnosis, includes an instruction to increase the search engine's spellchecker tolerance.

63. (Original) The computer-accessible media of Claim 45, wherein the instruction to

adjust the operation of the search engine that produced the search result in accordance with the

diagnosis, includes an instruction to prompt the user to one of clarify or narrow the search term

with an additional user input.

64. (Original) The computer-accessible media of Claim 45, wherein the instruction to

adjust the operation of the search engine that produced the search result in accordance with the

diagnosis, includes an instruction to temporarily adjust the operation of the search engine, and an

instruction to further determine whether the adjustments have actually improved the search result

performance before performing an instruction to permanently adjust the operation of the search

engine.

65. (Original) The computer-accessible media of Claim 45, wherein the instruction to

adjust the operation of the search engine that produced the search result in accordance with the

diagnosis, includes an instruction to adjust the operation of the search engine in real time.

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66. (Original) The computer-accessible media of Claim 65, wherein the instruction to adjust the operation of the search engine in real time includes an instruction to intercept the search result generated by the search engine and a further instruction to modify the search result before the search engine displays the search result to the user.

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